



#4

Docket No.: PC-0044 CIP

**DECLARATION AND POWER OF ATTORNEY FOR
UNITED STATES PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

HUMAN GPCR PROTEINS

the specification of which:

/ is attached hereto.

/ X / was filed on June 28, 2001 as application Serial No. 09/895,686, and if this box contains an X /, was amended on _____.

/ was filed as Patent Cooperation Treaty international application No. _____ on _____, 2001, if this box contains an X /, was amended on _____ under Patent Cooperation Treaty Article 19 on _____ 2001, and if this box contains an X /, was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code, §119 or §365(a)-(b) of any foreign application(s) for patent or inventor's certificate indicated below and of any Patent Cooperation Treaty international applications(s) designating at least one country other than the United States indicated below and have also identified below any foreign application(s) for patent or inventor's certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application for said subject matter the priority of which is claimed:

Country	Number	Filing Date	Priority Claimed
_____	_____	_____	/ / Yes / / No
_____	_____	_____	/ / Yes / / No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

Application <u>Serial No.</u>	Filed	Status (Pending, <u>Abandoned, Patented</u>)
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in said prior application(s) in the manner required by the first paragraph of Title 35, United States Code §112, I acknowledge my duty to disclose material information as defined in Title 37 Code of Federal Regulations, §1.56(a) which occurred between the filing date(s) of the prior application(s) and the national or Patent Cooperation Treaty international filing date of this application:

Application <u>Serial No.</u>	Filed	Status (Pending, <u>Abandoned, Patented</u>)
09/156,513	Sept. 17, 1998	Pending

I hereby appoint the following:

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Michael C. Cerrone	Reg. No. 39,132
Diana Hamlet-Cox	Reg. No. 33,302
Richard C. Ekstrom	Reg. No. 37,027
Barrie D. Greene	Reg. No. 46,740
Lynn E. Murry	Reg. No. 42,918
Shirley A. Recipon	Reg. No. 47,016
Susan K. Sather	Reg. No. 44,316
Michelle M. Stempien	Reg. No. 41,327
David G. Streeter	Reg. No. 43,168

respectively and individually, as my patent attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Please address all communications to:

LEGAL DEPARTMENT
INCYTE GENOMICS, INC.
3160 PORTER DRIVE, PALO ALTO, CA 94304

TEL: 650-855-0555 FAX: 650-849-8886 or 650-845-4166

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Signature: Olga Bandman
Date: 26 September, 2001
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Full name: PREETI G. LAL
Signature: _____
Date: _____, 2001
Citizenship: India
Residence: Santa Clara, California
P.O. Address: P.O. Box 5142
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INCYTE GENOMICS, INC.
3160 PORTER DRIVE, PALO ALTO, CA 94304**

TEL: 650-855-0555 FAX: 650-849-8886 or 650-845-4166

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First Joint Inventor:**

Full name: OLGA BANDMAN
Signature: _____
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Citizenship United States of America
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Date: Sept. 28, 2001
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Signature: 
Date: , 2001
Citizenship United States of America
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Third Joint Inventor:

Full name: Y. TOM TANG
Signature: _____
Date: _____, 2001
Citizenship United States of America
Residence: San Jose, California
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San Jose, California 95118

Fourth Joint Inventor:

Full name: MARIAH R. BAUGHN
Signature: Mark R. Baughn
Date: September 27, 2001
Citizenship United States of America
Residence: San Leandro, California
P.O. Address: 14244 Santiago Road
San Leandro, California 94577

Table 1

SEQ ID NO:	Amino Acid Residues	Potential Phosphorylation Sites	Potential Glycosylation Sites	Signature Sequences	Identification	Analytical Methods
1	441	S85 T164 T274 S306 S344 T81 S118 T407 Y312 Y387	N191 N405	M1-A23, I51-V72, G88-P111 C116-A145, I156-L175, M207-P229, G242-T264, E330-K341	Metabotrophic glutamate GPCR	BLOCKS, HMM, MOTIFS, PRINTS, SPSCAN
2	353	S158 T255 S86 T120 S151 S243 S246 T251 T317 S325	N113 N16 N23 N58 N84	I42-V66, P78-M99, W109-I149, V159-L180, T209-L232, V254-T278, Y293-R319	Somatostatin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS, PROFILESCAN
3	333	T60 T218 S89 S172 T224	N8 N110 N300	Y44-L74, P62-H83, F109-R131, N143-L164, A231-G255, K278-P304	Rhodopsin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS
4	396	S36 S187 T251 S27 T323 S389	N7	I46-P70, Y79-I100, L117-F157, R166-S187, S219-F242, L265-L289, S302-K328	Rhodopsin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS, PROFILESCAN
5	403	S360 S368 S47 T318 S337 S5 T33 S123 T398	N30 N352	I57-L78, G94-E117, C122-V151, L162-L181, M198-F220, G233-L255	Metabotrophic glutamate GPCR	BLOCKS, HMM, MOTIFS, PRINTS
6	807	T129 S155 S172 S201 S322 S347 S409 S662 S787 S794 S117 T166 T271 T402 T583 T587 T618 S771	N88 N110 N127 N281 N392 N424 N443 N505 N647 N785 N798	N425-T452, A549-L572, Q677-G696, H709-W730	Secretin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PRINTS

<110> Bandman, Olga
 Lal, Preeti
 Tang, Y. Tom
 Baughn, Mariah R.

<120> HUMAN GPCR PROTEINS

<130> PC-0044 CIP

<140> To Be Assigned
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Cys	Ser	Gln	Gly	Leu	Asn	Pro	Leu	Tyr	Tyr	Asn	Leu	Cys	Asp	Arg
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Ser	Gly	Ala	Trp	Gly	Ile	Val	Leu	Glu	Ala	Val	Ala	Gly	Ala	Gly
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Pro	Phe	Val	Gln	Asp	Thr	Lys	Lys	Arg	Ser	Leu	Leu	Gly	Thr	Gln
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Ala	His	Val	Phe	Ala	Leu	Asn	Phe	Leu	Ala	Arg	Lys	Asn	His	Gly
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Pro	Arg	Gly	Trp	Val	Ile	Phe	Thr	Val	Ala	Leu	Leu	Leu	Thr	Leu
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Val	Glu	Val	Ile	Ile	Asn	Thr	Glu	Trp	Leu	Ile	Ile	Thr	Leu	Val
					170				175				180	
Arg	Gly	Ser	Gly	Glu	Gly	Gly	Pro	Gln	Gly	Asn	Ser	Ser	Ala	Gly
					185				190				195	
Trp	Ala	Val	Ala	Ser	Pro	Cys	Ala	Ile	Ala	Asn	Met	Asp	Phe	Val
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Gly	Ala	Trp	Pro	Ala	Leu	Cys	Gly	Arg	Tyr	Lys	Arg	Trp	Arg	Lys
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His	Gly	Val	Phe	Val	Leu	Leu	Thr	Thr	Ala	Thr	Ser	Val	Ala	Ile
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Ala	Asn	Ala	Trp	Ala	Phe	Val	Leu	Phe	Tyr	Val	Ile	Pro	Glu	Val
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 Met Tyr Pro Thr Arg Gly Val Gly Tyr Glu Thr Ile Leu Lys Glu
 320 325 330
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 335 340 345
 Asp Glu Pro Val Ala Ala Lys Arg Pro Val Ser Pro Tyr Ser Gly
 350 355 360
 Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr Gln Pro Thr Glu Met
 365 370 375
 Ala Leu Met His Lys Val Pro Ser Glu Gly Ala Tyr Asp Ile Ile
 380 385 390
 Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly Ser Ala Asn
 395 400 405
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 Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser Thr
 50 55 60
 Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
 65 70 75
 Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu
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 Leu Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly
 95 100 105
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 125 130 135
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 Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
 215 220 225
 Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
 230 235 240
 Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
 245 250 255
 Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala

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Thr Pro Thr Phe	Val Tyr Leu Tyr Asn	Ala Ala Ile Ser Leu
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Tyr Ala Asn Ser	Cys Leu Asn Pro Phe	Val Tyr Ile Val Leu
305	310	Cys 315
Glu Thr Phe Arg	Lys Arg Leu Val Leu	Ser Val Lys Pro Ala
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His Thr Gly Ile Ile Ser Arg Gly Lys	Pro Val Asp Ala His	Tyr
260	265	270
Leu Gly Leu Leu His Phe Val Lys Asp	Phe Ser Lys Leu Leu	Ala
275	280	285
Phe Ser Ser Ser Phe Val Thr Pro Leu	Leu Tyr Arg Tyr Met	Asn
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Glu Pro Met Asp Phe Val Met Ala Leu Ile Tyr Asp Met Val Leu		
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290 295 300		
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 Thr Tyr Lys Cys Val Gly Ser Gln Trp Glu Glu Lys Arg Asn Asp
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 Leu Ile Lys Ser Pro Ser Gln Asp Glu Met Leu Pro Thr Tyr Leu
 200 205 210
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 245 250 255
 Val Leu Ser Thr Val Asn Ile Ile Leu Gly Lys Pro Val Leu Asn
 260 265 270
 Thr Trp Lys Val Leu Gln Gln Gln Trp Thr Asn Gln Ser Ser Gln
 275 280 285
 Leu Leu His Ser Val Glu Arg Phe Ser Gln Ala Leu Gln Ser Gly
 290 295 300
 Asp Ser Pro Pro Leu Ser Phe Ser Gln Thr Asn Val Gln Met Ser
 305 310 315
 Ser Met Val Ile Lys Ser Ser His Pro Glu Thr Tyr Gln Gln Arg
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 Lys Ser Tyr Leu Glu Asn Leu Gln Ser Asp Ser Ser Ile Val Thr
 350 355 360
 Met Ala Phe Pro Thr Leu Gln Ala Ile Leu Ala Gln Asp Ile Gln
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 Glu Asn Asn Phe Ala Glu Ser Leu Val Met Thr Thr Thr Val Ser
 380 385 390
 His Asn Thr Thr Met Pro Phe Arg Ile Ser Met Thr Phe Lys Asn

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				425		Asp	Ser	Ser
Val	Glu	Glu	Gly	Asp	Gly	Asp	Asn	Val
				440		Thr	Cys	Ile
Leu	Thr	Ser	Phe	Ser	Ile	Leu	Met	Ser
				455		Pro	Asp	Ser
Ser	Ser	Leu	Leu	Gly	Ile	Leu	Leu	Asp
				470		Ile	Ile	Ser
Val	Gly	Phe	Ser	Ile	Leu	Ser	Leu	Ala
				485		Ala	Cys	Leu
Ala	Val	Val	Trp	Lys	Ser	Val	Thr	Lys
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Arg	His	Thr	Cys	Ile	Val	Asn	Ile	Ala
				515		Ala	Ser	Leu
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Phe	Phe	Tyr	Leu	Ser	Val	Phe	Phe	Ile
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				590		Leu	Gly	Tyr
Leu	Ala	Ile	Ser	Val	Ile	Thr	Leu	Gly
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Val	Tyr	Thr	Arg	Lys	Asn	Val	Cys	Trp
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Lys	Ala	Leu	Leu	Ala	Phe	Ala	Ile	Pro
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Val	Asn	Ile	Thr	Ile	Thr	Ile	Val	Val
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				665		Gln	Glu	Lys
Phe	Gln	Ile	Ser	Lys	Ser	Ile	Gly	Val
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Thr	Gly	Thr	Tyr	Asn	Val	Ser	Thr	Ser
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<220>

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<223> Incyte ID No: 1258981H1

<220>

<221> unsure

<222> 79, 87, 90, 149, 162, 189, 199, 202, 205, 218

<223> a, t, c, g, or other

<400> 13

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 tggccctgat gcacaaaagt ccgtccnaan gagcttacga catcatcctc ccacgggcca 120
 tcgccaacag ccaggtgatg ggcagtgcna actcgaccct gngggctgaa gacatgtact 180
 cggcccagng ccaccagng gncanaccgc cgaaagangg caagaactct ct 232

<210> 14

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1442823R1

<400> 14

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 atccaggcct gagcgcctgg gaagtcttctt gaggttgcag gaatctccag agaaacatag 120
 gcgctcccc gccaccaccc cgagaacact attggctgg agtgtgaccg ccgaggtgat 180
 cctggcagga ggctggggtt ggctcctcga ctccacaaac actgaggagt gggtggggac 240
 accccatgaca cccacccaaa cactggcaga gagggaggcc cttccacatc tggggcacat 300
 gttgctgggc ctgcccagggg gaggaggagc ctggagagtc cttgcccgg ggccaggtcc 360
 tcagggccct ccccaaatcc gaccgcctct cctcgccacc gctgactcag tcccacacgt 420
 aggggtttct aaagacctga gagttctgc cgtcttcgg cggtgtggcg cctggtggt 480
 ctggcccgag tacatgtctt cagccccgag gtcgag 516

<210> 15

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1962119T6

<400> 15

cacagaggag caagatccag gcctgagcgc ctgggaagtc tcggaggtt gcaggaatct 60
 ccagagaaac ataggcgctg cccagccacc accccgagaa cactattgg ctggagtg 120
 accgcccagg tgatcctggc aggaggctgg gggtggctcc tcgactccac aaacactgag 180
 gagtggtgg ggacacccat gacacccacc caaacactgg cagagaggga ggcccttcca 240
 catctggggc acatgttgct gggcctgc 268

<210> 16

<211> 246

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2059242R6

<400> 16

cagtgtttgg gtgggtgtca tgggtgtccc caccactcc tcagtgtttg tggagtcgag 60
 gagccaaccc cagcctcctg ccaggatcac ctccggcggtc acactccagc caaatagtgt 120
 tctcgggggtg gtggctggc agcgcctatg ttctctggaa gattcctgcg acctcaagag 180

acttcccagg cgctcaggcc tggatcttgc tcctctgtga ggaacaaggg tgcctaataa 240
 atacat 246

<210> 17
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SATA01180F1

<220>
 <221> unsure
 <222> 50, 52, 56, 66, 233, 272, 296
 <223> a, t, c, g, or other

<400> 17
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 cccagnaaga agaatacctg ggtccccagc aggctccgtt tcttggtgtc ctgcacaaag 120
 gggaggctgg ccaccaggat gatggtgagc acaaacgtgg tgacaatgcc cgccccagcc 180
 acggcctcca ggacgatgcc ccacgccccca gagcggtcac acaggttgta gtncaggggg 240
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<210> 18
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SARB01556F1

<220>
 <221> unsure
 <222> 41, 51, 88-89, 105, 127-128, 173, 176, 200-201, 208, 217-218, 221, 223,
 229-230, 235-236, 239, 251, 260, 270, 274, 277, 280, 295, 307-308, 313-314,
 325, 339, 359, 362-363, 368, 376, 380, 382, 391, 405-406, 409, 414-416,
 435-436, 441, 448-449, 455, 457, 459
 <223> a, t, c, g, or other

<400> 18
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 agaaccacgg gccccgggc tgggtgannt tcactgtggc tctgntgctg accctggtag 120
 aggtcannat caatacagag tggctgatca tcacccctggc tcggggcagt ggngangggc 180
 gcccctcaggc caacacgcagn ncaggctngg ccgtggnnntc ncncgtgnn atcgnnaanc 240
 atggatttgt natagcactn atctcacgtn atgntgntgn tgctgggtgc cttcntgggg 300
 gcctggnnca gcnnctgtgt tggcngctaa agccctggng taagaatggg gtctttgtng 360
 tnntcaanaaa aaccanctcn gntgccatat ngttagttagaa aaccnncang tatnnntaca 420
 ggcaacaagc acccnnaaca nttccannnc tgggnangna cccaaag 467

<210> 19
 <211> 631
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SARA01967F1

<220>
 <221> unsure
 <222> 229, 240, 341, 411, 445, 465-466, 469, 477, 491-492, 499-500, 505, 510,
 517-518, 522, 524-525, 539-540, 545, 547-548, 551, 563-564, 567, 570, 572-573,
 578-579, 585, 592, 605, 607, 627-628
 <223> a, t, c, g, or other

<400> 19
atccatggaa aaggccttgt tctccaccaa catgctctga cccttctgct ctttcaggat 60
ggctctatag cccacgcccc gggtgggta catgtccccc tggtagctt gctctggct 120
ggacttggtc acctggaga cctcgggat gacgtagaag aggacgaagg cccaggcatt 180
ggcggcgagg gcgatggca gcgtgggat atcccaggtg ggactgtnt gctgcttgn 240
gccgtaaata tacatgacga tccacaccac ccatatggca acggaggtgg ctgtggtag 300
gagcacaaag accccatgct tacgcccagcg cttagtagcgg ncacacaggg cgggcccaggc 360
ccccaggaag gcacccagca gcagcagcat gacgtagatg agtgccaatg ncaaagtcca 420
tgttggcgat ggcacaaggg gggangggca agggcccccag ggggnacng aggcttngaa 480
atttggtaaa nncaaggttn aaaancaagn ttcccnnng gngnnaaaaaa ttttttaann 540
cccgncnnca naaatttccc canncangan annnttanng atccnnggaa ancccataaa 600
aaaantntta aaaacccctt ggggggnnc c 631

<210> 20
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432H1

<400> 20
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ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctccctgtgg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cag 223

<210> 21
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432R1

<400> 21
gggtggagat ttccctttat ttgattttat ttggagagg aaggctaga gcaaaaagat 60
gatgccaaca caccggcac tagaatgacc cctgcacatg cagaacacac ggacactcaa 120
gtggattag tgactgagca aatgtgcccc gtggagagaa tgtcaccaga gtcgaaaaag 180
ccccccgacc ccagcttta ttagtttaa gacccccaac cacacccacc ccaggtctcc 240
ttgttttcag taagcagacc tcctagcaaa ctgggctttt actcctgtgg gtcagtgcc 300
acatcccctc aaataaacat gcatcctcta gagcaaaagg gaaattgaca ggatgctgga 360
acgcccggag atggatgtct ttattttca ttatccacca gcttggaga aaggccacct 420
tccatcgac cagtggagg cgggaaagag cgatcgcccttccgtc tctca 475

<210> 22
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432X12

<400> 22
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ccccgataac ctcacttcgg caggatcacc tcctcgacg gggagcatct cctacatcga 120
catcatcatg cttcggtgt tcggcaccat ctggctctg ggcacatcatg ggaactccac 180
ggtcatcttc gcggtcgat agaagtccaa gctgcactgg tgcaacaacg tccccgacat 240
cttcatcatc aacctctcgg tagtagatct cctctttctc ctggcactgc cttcgtatgg 300
ccacaagctc atggcaatg ggggtgtggca ctttgg 336

<210> 23
<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3001554F6

<400> 23

gagaatgtca	ccagagctgc	aaaatctccc	cgacccccaggc	ttttatttagt	tttaagaccc	60
ccaaaccacac	ccacccccagg	tccttgcgtt	ttcagtaagc	agacccctta	gcaaactggg	120
cttttactcc	tgtgggctca	gtgccacatc	ccctcaaata	aacatgcatc	ctctagagca	180
aaagggagat	tgacaggatg	ctggaacgcc	gagagatggg	atgcatttatt	tttcattatc	240
caccagcttgc	ggagaaaaggc	cacccat	cgcaccatg	agaggcggga	aagagcgatc	300
gggccccttc	ccgtctctca	ggccttgc	aacatggccc	tggctgctca	ctccagccct	360
gcctgacttt	aaacaaaccc	agtca	tttccaccc	ttgccttggg	aagaagacat	420
ttgagagctc	acagatata	tgcaaccgg	tatccaaacc	aacatgttct	cttgctca	478

<210> 24

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: SAAC00257R1

<220>

<221> unsure

<222> 14

<223> a, t, c, g, or other

<400> 24

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agaaaagagga	gatctactac	cgagagggtt	atgatgaaga	tgtcggggac	gttgttgac	120
cagtgcagct	tggacttctt	cacgaccgcg	aagatgaccg	tggagttccc	gatgatgccc	180
aggaggcaga	tggtgccgaa	caccgaaggc	atgatgtatgt	tgatgttagga	gatgctcccc	240
gtgcgaggag	gtgatcctgc	cgaagtgagg	ttatcgaaa			279

<210> 25

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: SAAB00250R1

<400> 25

ggcactttgg	ggagaccatg	tgcaccctca	tcacggccat	ggatgccaat	agtca	60
ccagcaccta	catccgtacc	gccatggcca	ttgaccgcta	cctggccact	gtccacccca	120
tcttccac	gaagttccgg	aagccctctg	tggccaccct	ggtgatctgc	ctcctgtggg	180
ccctctcctt	catcagcatc	acccctgtgt	ggctgtatgc	cagactcatc	cccttccag	240
gaggtgcagt	gggctgcggc	atacgcctgc	ccaacccaga	cactgaccc	tactggttca	300
ccctgtacca	gttttccctg	gcctttgccc	tgcctttagt	ggtcatcaca	gccgcatacg	360
tgaggatcct	gcagcgcata	acgtccctag	tggcccccgc	ctcccagcgc	agcatccggc	420
tgcggacaaa	gagggtgacc	cgcacaccca	tgcctatctg	tctggcttc	tttgtgtgt	480
ggcaccctca	ctatgtgcta	cagctgaccc	agttgtcca			519

<210> 26

<211> 535

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: SAAB00523R1

<220>
 <221> unsure
 <222> 113, 130-132, 134, 482, 530
 <223> a, t, c, g, or other

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 ctgctcaactc cagccctgcc tgactttaaa caaacccagt cagtaccctt ccncctctg 120
 ccttggaaan nngncatttg agagctaca gatatagtgc aaccggttat ccaaaccac 180
 atgttcttctt gctcagcttc tgttctatcc aaaggctca tcctgctccc ccaagggat 240
 ttctgatata tgaaaaacccc aaacctgact ccaggcctcc ccagcaacgt gtgagccca 300
 tggaaatgtat ttatttcatt gcaacaaccc ctcacaaccc ggccttctg cattttccga 360
 gccgtcttgg gttttctca gcatctctcc cggctggcgtg ttgtggtgcc ctgacttgaa 420
 ggtgtgcagg gtggcagggg aagtatcagg tgccttgctt tctggcctct ctcgtcagcc 480
 gnctgagcgt tgctgacagc gcgagtgccc ctgggtgcag gcttaacgan agctg 535

<210> 27
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2214673H1

<400> 27
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 ggcccacagc accaagaggc ttggccaca aagtaaaggg tcgcggaccc cggccggccgc 120
 catgtggagc tgcagctggt tcaacggcac aggctggtg gaggagctgc ctgcctgcca 180
 ggacctgcag ctggggctgt cactgttgc gctgctggc ctgggtggc gcgtgccagt 240
 gggcctgtgc tacaa 255

<210> 28
 <211> 363
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3073644H1

<400> 28
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 ccacatgggg gtgcagcagg tgctggcgtt ggcggccag ccctccctggg gagacgtgac 120
 tctgggtggac gcagagcact tagttaccct ggacgctccc cacatccttc cagaaggaga 180
 cgagctgctg gaagacaaggc aggaggggtt ttttcttga agtttcttt ttcccacaaa 240
 tgccactctt gggccaaggc tgggtcccc gtggctggca tctggcttga gtctccccgga 300
 ggcctgtgcg tctcccaaacc acgcagctca aggtccacat ccgcacaaaggc ctcctcgcc 360
 tca 363

<210> 29
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3573501F6

<220>
 <221> unsure
 <222> 11, 29, 50, 72, 77, 93, 125-126, 131, 139, 144, 156, 176, 184, 214, 216,
 246, 250, 252
 <223> a, t, c, g, or other

<400> 29

cgcacagctg ngcaggtcct caccagagnt ctggtgccca cctctgtccn ggcatgctgc 60
 tcaccgacag tngccanggc ccacagcacc aanaggcttg ggcacaaaag taaagggtcg 120
 cgannctcg ncggccgcna tgtngagctg cagctngttc aacggcacag ggctgntgga 180
 gganctgcct gcctgccagg acctgcagtg gggntntcac tgggtcgct gctggcctg 240
 gtggtnngcn tnccagtggg cctgtgctac aacgcctgc t 281

<210> 30
 <211> 238
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4618526H1

<400> 30
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 tggggcacac ggccatcatc tcgcgagggaa agcccgtgga cgcacactac ctggggctac 180
 tgcactttgtt gaaggatttc tccaaactcc tggccttctc cagcagctt gtgacacc 238

<210> 31
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4857037H1

<400> 31
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 gaaccagagc ttcccccagca agctccaaacg gctgtatggaaa aagctggccct gcgggggaccg 120
 gcaactgctcc ccggaccaca tgggggtgca gcaggtgtcg gcgtaggcgcccagccctc 180
 ctgggggagac gtgactctgg tggacgcaga gcacttagtt accctggacg ctccccacat 240
 cttccagaaa ggagacgag 259

<210> 32
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5025086H1

<400> 32
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 cacgctgggtt ttcatcggtctt acgtgggtgcc agcaactggcc accctctacg cgctgggtgt 180
 actctcccgcc gtccgcaggg aggacacgccc cttggaccgg gacacgggccc ggctggagcc 240
 ctcggcacac aggctgctgg tggccaccgt gtgca 275

<210> 33
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1482004T1

<220>
 <221> unsure
 <222> 3, 97, 99
 <223> a, t, c, g, or other

<400> 33
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 tcatactgaa aaaaaccta gctgatgta tctgtgnng ctggggaggg tgcaggac 120
 atttggggc tgaggagagc gcgtcactgc tattgaatag ctccattaa caccagccat 180
 gtctccgcgt ctcaggact tctgtgaat gttctcagaa ccctgtggcactg 240
 accccggcagg cttgtctgc acacgccc cactggcagg gcccggccac cctggctgtt 300
 gcatttctt cgtagggtt tgttcattt actatttgc atttttctag gaaacatctg 360
 ttttgtaaa acaaacaagg ggaatcaag tatttaacc acaaagtata aatactggct 420
 ctaagcttc atcacttcat tgacaaactg aatgctgagg aggctgaagg cgaggaggt 480
 ttgcggatg tggaccttga gctgcgtt tggagacgc acaggcctcg gggagactca 540
 acccagatgc cagccacggg gct 563

<210> 34
 <211> 466
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <223> Incyte ID No: 153210R6

<220>
 <221> unsure
 <222> 14, 156, 277
 <223> a, t, c, g, or other

<400> 34
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 tctctctgcgt gtggactg cttaatggg atatatttgc tctgtatcg aggctttgac 120
 ctaaagtttc gtggagaata caataagcat gcgcantgtg gatggagagt actcattgtc 180
 agctttagg atcttggcc attctgtcca cagaagatc agtttactg ttaacatttc 240
 tgacatttggaa aaaatatac tgcattgtt atccttntag atgtgtgaga cctggaaaat 300
 gcaacaatac tacagttctg attctcattt ggattactgg tttatagtg gtttcattcc 360
 attgagcaat aaggaatttt tcaaaaacta ctatggcacc aatggagttat gctccctct 420
 tcattcagaa gatacagaaa gtattggagc ccagatttt tcagtgc 466

<210> 35
 <211> 230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2488822H1

<220>
 <221> unsure
 <222> 43
 <223> a, t, c, g, or other

<400> 35
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 cattgtcagc ttgttaggatc tttggccatt ctgtccacag aagtatcgtt tttactgttta 120
 acatttctga cattggaaaa atacatctgc attgtctatc cttttagatg ttttgcgtt 180
 gggaaatgca gaacaattac agttctgattt ctttgcgtt tttactgttta 230

<210> 36
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3558664T6

<220>

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<221> unsure
<222> 152-193, 334, 447
<223> a, t, c, g, or other

<400> 36
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tgtatagtct tttgtcatta aacaccatct acagattgaa aggttctgca ctgtctactt 120
ccaggactat attgcaatgc tatgcacata gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnnn nnngttactg aagttagattt ctcttaattt cttatgcaaa atgtctacta 240
atatatatac attattgata taattacttc ccttgcataag agcatttagtc atttttattt 300
ttcctcatgt ccttgcataaa tatttatctt agcnattatt ataaattaat tttgtggat 360
tcatttcata ccagtaaattc cctcatgaaag caccggcaca gtattctctg cgaagaaatg 420
aatttcagag tcagtcataatc atagganttg agtctcggtt attgaggaat cagtgacatt 480
tca
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<210> 37
<211> 612
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X308B1

<220>
<221> unsure
<222> 561
<223> a. t. c. q. or other

<400> 37	ggggtatgtg	aaaagggtccg	gctccattaa	ctcagggtggc	atccctgca	gtggccacat	60
	ttccaccagg	atgaatgatg	gagcatatgt	tttctgacct	ttgtgttcca	tagattttct	120
	ttgtctgttag	ttataccaaa	accgatgaat	catttcttta	aatggtcttg	tggtcagagt	180
	atagagaatt	gggttcaaag	cactgttaat	gggcagaata	aaaatcacta	cccaagaggt	240
	tatggtacct	ggtatttcta	cctgaagcag	tgaaagaaat	ttcaactacaa	aaatgggtat	300
	ccagcataat	gcatcagtaa	atactataaa	gaaaaaacgt	ttggcaagga	tcatctttt	360
	ttaaacttga	ttccgttattt	cagttgtgt	tatggcactt	tgtgaacac	tataaaacat	420
	gctccatag	gaaaaaaactg	tgatgataaa	tgccggccaaa	ttaataccaa	gaaaaattgc	480
	cactgaataa	atctggggct	ccaataacttt	ctgtatttc	tgaatgaaga	gggaagcata	540
	ctccatggt	gccatagtag	nttgaaaaa	ttccttattg	ctcaatggaa	tgaagccac	600
	ttttaaacc	gt					612

<210> 38
<211> 562
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X310D1

<220>
<221> unsure
<222> 311, 359, 446, 454, 509, 556
<223> a t s a or other

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<400> 38
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aaaccatgt taatacatgt tcctttgatt gattattaat ttgatatttt tagcagcccta 120
gaagggattg aaatttcaaa tatccaacaa aggatgtta gacctttat gaatctct 180
cacatatatt ttaagaáatt ccagtactgt gggtatgcac cacatgttcg cagctgtaaa 240
ccaaacactg atgaaatttc atctctagag aatctctgg caagcattat tcagagagta 300
tttgcgttggg ntgtatctgc agttacctgc tttggaaaca ttttgcgtat ttgcgtgcna 360
ccttatatca ggtctgagaa caagctgtat gccatgtcaa tcatttctct ctgctgtgcc 420
gactgcctaa tggggatata ttatncgtg atcngagggct ttgacctaaa gttcgtgga 480
gaatacata agcatgcgcc tggggatng agagtactca ttgtcagctt gttaggatctt 540
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tgcccattcc tgtccncagg ag

562

<210> 39

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201H1

<400> 39

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accatctgct ctgtccgccc cttcctctgg ggcgtcctct ttgcgtctg cttctcctgc 60
ctgctgagcc aggcatggcg cgtgcggagg ctgtgtcgcc atggcacggg ccccgccggc 120
tggcagctgg tggccctggc gctgtgcctg atgtctggtc aagtcatcat cgctgtggag 180
tggctgggtc tcaccgtgct gcggtacaca agggcagcct ggcctacga gcccattggac 240
tttgtatgg ccctcatcta                               260

```

<210> 40

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3141184H1

<400> 40

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cttccacgcc atccctgaga tccactgcac cttctgcca gccctgcagg agaacacgcc 60
caactacttc gacacgtcgc agcccaggat gcgggagacg gccttcgagg aggacgtgca 120
gctgccggc gcctatatgg agaacaaggc cttctccatg gatgaacaca atgcagctct 180
ccgaacagca ggatttccca acggcagctt gggaaaaaga cccagtgca gcttggggaa 240
aagaccacgc gtcctgtta gaag                               264

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<210> 41

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 384797R6

<220>

<221> unsure

<222> 433, 497

<223> a, t, c, g, or other

<400> 41

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cgtcagctg cgcggggct atatggagaa caaggccttc tccatggatg aacacaatgc 60
agctctccga acagcaggat ttcccaacgg cagttggga aaaagaccca gtggcagctt 120
ggggaaaaaga cccagcgtc cgtttagaag caacgtgtat cagccaactg agatggccgt 180
cgtgctcaac ggtgggacca tcccaactgc tccgccaagt cacacaggaa gacaccttg 240
gtgaaagact ttaagttcca gagaatcaga atttctctta ccgatttgcc tccctggctg 300
tgtcttctt gagggagaaaa tcggtaacag ttggcgaacc aggccgcctc acagccagga 360
aatttgaaaa tcctagccaa ggggatttcg tgtaaatgtg aacactgacg aactgaaaag 420
ctaacaccga ctnccggccc tcccctgcca cacacacaga cacgtaatac agaccaacct 480
caatcccgca attcganggg gggcc                               505

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<210> 42

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705201X325F1

<220>

<221> unsure

<222> 41, 112, 126, 135, 232, 235, 319, 327, 329, 333, 342, 350, 352, 356, 359-360, 375-376, 379, 384, 388, 391-392, 394, 403, 405-406, 418, 426, 437, 453, 462-463, 475, 479-480, 485-486, 495, 500, 502, 510, 529, 541, 545-546, 549, 557, 559, 562, 565, 568, 571-572, 577, 583, 589-590, 596

<223> a, t, c, g, or other

<400> 42

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gcctgatgct ggtgcaagtc atcatcctgt ggagtggctg gtgctcaccg tnctgcgtga 120
cacaangcca gcctncgcct acgagccat ggactttgtg atggccctca tctacgacat 180
ggtaactgctt gtggtcaccc tggggctggc cctcttact ctgtgcggca anttnaagag 240
gttggaaagctt aacggggctt cctcctcatc acagccttcc tctctgtgt catctgggtg 300
gcctggatgta ccatgtacnt tttcggnant tttaacctgc anagggggan cttttnaann 360
accccacttg gctannaant ttgnccgnaa nngntgggtt ttnannatct tccatgcntc 420
cttganacca atgcacnntt tgccaaacct tanggagaac annccaaact acttnaann 480
tcccnccc ttttngggan anggccttcn caggagaaat tttatcttnc gcggggctaa 540
nttgnnaana aggctncnc antgnntnaa nnaattnagc ttnccgaann cagggnnttc 600
caaacg 606

```

<210> 43

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1262948X325F1

<220>

<221> unsure

<222> 7, 220, 310, 320, 409, 420, 446, 469, 474, 485, 488, 491, 495, 513, 519, 530, 533, 545, 555, 561, 568, 588, 591, 594, 601, 611, 614, 625, 638, 647

<223> a, t, c, g, or other

<400> 43

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gaacagnctt ggagcgctgg cgctgcgggg ccgcgggggt cgaatgttcg tggcatcaga 60
gagaaagatg agagctcacc aggtgctcac ctccctcctg ctcttcgtga tcacctcggt 120
ggcctctgaa aacgcccagca catcccgagg ctgtgggctg gacctcctcc ctcagtagct 180
gtccctgtgc gacctggacg ccatctgggg cattgtggtn gagggcgggtgg ccggggcggg 240
cgccctgatc acactgctcc tgatgctcat cctccctgggt cggctgcctt tcaaggagaa 300
ggagaagaan ggcctgtgn gctccacttt ctgttccctcc tggggAACCT ggggcctt 360
tggggctgac gttcccttca tcatccagga agacgagacc aatctgctnc tgttccggcn 420
gttcccttctt ggggggttct cttttnggtt ctgtctttct tccatgcctnc ttangcaagg 480
caatngcncc nttcngaagc ttggttccgg cantggcang gggccccccn ggnttgcata 540
acttnttggg cttgnccct nttccctnaa agcttggtca aaataatnat nccntttgaa 600
nttgccttggt ntcnaccctt ttttnttaaa aaaaggcnaa ctttgcncctt aaaaa 655

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<210> 44

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3036563H1

<400> 44

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gtcacctgta tctgtgacca cctaacaatca ttctccatcc tcatgtcccc tgactcccc 60
gatcctagtt ctccctggg aataactcctg gatattattt cttatgttgg ggtgggctt 120
tccatcttga gcttggcagc ctgtcttagtt gtggaaagctg tgggtgtggaa atcggtgacc 180
agaatcgga cttcttataat gcgccac 207

```

<210> 45
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 4457161H1

<400> 45
 atcttgcatttgg agcagaatca gtactgacag tcaagaccc gaccaggag tggaatggaa 60
 cctatcactg catatttgcata tataagaatt catacagtat tgcaacccaa gacgtcattt 120
 ttcacccgcgt gc&tctaaag ctgaacatca tgggtgatcc tttggaaagct actgtttcat 180
 gcagtgggtc ccatcacatc aagtgtcga tagaggagga tggagactac aaagttactt 240
 tccatatggg ttccatccatcc ctcc 264

<210> 46
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH00352F1

<400> 46
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 atcccgtaat aggtgtcggg gagccgggaa aagtcatcca gaagctatgc cggttctcaa 180
 acgttcccag cagccctgag agtcccattt gcgggaccat cacttacaaa tgtgttaggt 240
 cccagtgggg ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
 tggctaaaggc tttgatcaag agccctctc aggtgagat gctccctaca tacctgaagg 360
 atcttctat tagcataggc caagcggAAC atgaaatcag ctcttc 408

<210> 47
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH02656F1

<400> 47
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 cagtctggag cccatctatg aagctgaatc tgggtcctgg ggaaaacatc acatgccagg 120
 atcccgtaat aggtgtcggg gagccgggaa aagtcatcca gaagctatgc cggttctcaa 180
 acgttcccag cagccctgag agtcccattt gcgggaccat cacttacaaa tgtgttaggt 240
 cccagtgggg ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
 tggctaaaggc tttgatcaag agccctctc aggtgagat gctccctaca tacctgaagg 360
 atcttctat tagcataggc aaagcggAAC atgaaatcag ctcttc 413

<210> 48
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH01730F1

<220>
 <221> unsure
 <222> 341, 393
 <223> a, t, c, g, or other

<400> 48
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 ccacccagaa acctatcaac agagggttgt tttccatcac ttgacctct gggcaatgt 120
 ggtcattgac aagagctacc tagaaaactt gcagtcggat tcgtctattg tcaccatggc 180
 ttcccaact ctccaagcca tccttgccta ggatatccag gaaaataact ttgcagagag 240
 cttatgtatg acaaccatg tcagccacaa tacgactatg ccattcagga tttcaatgac 300
 ttttaagaac aatagccctt caggcggcga aacgaagtgt ngtcttctgg aacttcaggc 360
 ttgccaacaa cacagggggg tgggacagca gtnggtgcta tttgaagaa ggtgatgggg 420
 acaatgtcac ctgtatctgt gaccaccaa catcattctc catcctcatg tcccctgact 480
 tcccagatc 489

<210> 49
 <211> 87
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH03622F1

<400> 49
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 aaggggtaga acagcattag ggccat 87

<210> 50
 <211> 116
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH01163F1

<400> 50
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 atgcttgg atgagtttc cagggatgt ctggttctt ctgtgttggg atcgtg 116

<210> 51
 <211> 558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH02669F1

<400> 51
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 cctgtttac caaacaaatt gttaaatctc cttgatattg gagaactcat agaaaacaca 180
 ggtgtggatg aaccaggaa tgtcgactt gagtgctgt aagaccatct cgacaatgaa 240
 aacttattca gcaaagctc ctgtacctc agatcccaga ggcattccaaa gagtaaaatg 300
 aataatccct ggaagacatt gaggatggca aatatgatat ggaacacaaag gttggccct 360
 gggaaacacag tggtgagacc aaaacccaa gtgaggccca agagtgggtt gaggacccca 420
 atgcttgc ttagtctgaaa caggctgctc ttctcctgct tgcattggctt gtctccaatg 480
 gaaggcctca ggatcttggt gatgacacaa tagtgatggt tatgttcacc acacaatgat 540
 cagtgtggg atggcaaa 558

<210> 52
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: SZAH00249F1

<400> 52
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 tggggAACgt gttctcgggg caggttccg ggagcagatg ccaaaaagac tttttcatag 180
 agaaggggct ttctttgtt aagacagaat aaaaataatt gttatgttc tggttgttcc 240
 ctccccctcc cccttgcgtg ataccacatg tgtatgtat ttaagtgaaa ctcaagccct 300
 caaggcccaa cttctctgtc tataatgtat atagatttcc gagaggcatt ttcacccccc 360
 ac 362

<210> 53
 <211> 615
 <212> DNA
 <213> Canis familiaris

<220>
 <221> misc_feature
 <223> Incyte ID No: 702778992H2

<400> 53
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 catgtacacg tacggcaaca ggcagcgcac cagccccacc tggatgacc ccacgctggc 120
 catcggccctc gccgccaatg cctgggcctt tgtctcttc tatgtcatcc ctgaggtctc 180
 ccaggtgacc aaggccagcc cagagcaaa ttaccagggg gacatgtacc ccacccgggg 240
 ctaggctac gagaccatcc taaaagagca gaaggccag agtatgttg tggagaaca 300
 ggcattttcc atggatgagc cagcctcagc taagagaccg gtgtcaccat acagtgggt 360
 caacggccag ctgctgacca gctgtctcca gcccaccggg atggccctga tgcacaaagg 420
 cccgtccgaa ggagcttacg acgtcatct cccacgagcc accgcaaca gccaggttat 480
 gggcagtgcc aactccaccc tgagggccga agacatgggtt gggcccaaga gccaccaggc 540
 agccacgcca cggagagacg gcaagagctc ccaggtctt agaaaccctt acgtgtggg 600
 ctgagtcggc ggcag 615

<210> 54
 <211> 686
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> Incyte ID No: 701938522F6

<400> 54
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 gcttggactt ttgtcttctt ctatgtcatc cctgagggtct cccaaatgtac caaaccac 180
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 cagcctcagc aaagagaccc gtgtcgccctt acagtggctt caatgggtcag ctgctgacca 360
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 acgtcatctt cccacggggcc accgcaacac ccaggtgtat ggcagtgcca actcaaccct 480
 gcgagctgaa gacatgtaca tggtccagag ccaccagggtt gcacgccaac gaaagacggc 540
 aagatctctc aggttcgtt cccgaaaaat aaaacaagat ggtatgtcc ctcttccctg 600
 gaccgtgacc tctccgtgtt ccattgcctt catggacttt gtcattggcctt catttacgtt 660
 atgctgtgc tgctggcgcc 686

<210> 55
 <211> 198
 <212> DNA
 <213> Macaca fascicularis

<220>
 <221> misc_feature
 <223> Incyte ID No: 700712581H1

<400> 55
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 gggcttggggc tcctggacaa ggtggcagggt gctggaggct gccgcagttt gcgtgggtgg 120

aggggagctc agcttggtt gggagccgg cgaccgtcac tggctggatg gacctggaag 180
 cctcgctgct gcccactg 198

<210> 56
 <211> 271
 <212> DNA
 <213> *Mus musculus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701250242H1

<400> 56
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 gtgggtggatc tgctttcct gctgggcatg ctttcatga tccaccagct catggtaat 120
 ggtgtctggc actttggga aaccatgtgc accctcatca cagccatgga cgccaacagt 180
 cagttcacca gcacctacat cctgactgct atggccattg accgctactt ggccaccgtc 240
 catccatct cctccaccaa gttccggaag c 271

<210> 57
 <211> 304
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701899983H1

<400> 57
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 cttcccgagg ggtgtgtgg gctgtggcat ccgcctgcca aaccggaca ctgacctcta 180
 ctggttcaact ctgtaccagt tttcctggc ctttgccctt ccgtttgtgg tcattaccgc 240
 cgcatacgtg aaaatactac agcgcattgac gtcttcgggt gctccagcct cccaacgcag 300
 catc 304

<210> 58
 <211> 248
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701028051H1

<400> 58
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 cagcagcatc tccgatggcc aggataatct cacattgccc gggtcacctc ctcgcacagg 120
 gagtgtctcc tacatcacat cattatgct tccgtgtctg gtaccatctg ttcctggc 180
 atcgtggaa actccacggt catcttgct gtgtgaaga agtccaagct acactgggtc 240
 agcaacgt 248

<210> 59
 <211> 497
 <212> DNA
 <213> *Mus musculus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 075474_Mm.1

<400> 59
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 acacccggca cgtgtgtggc ttcgtctggg gagggggcggt gctcaccagc ttctcctccc 180
 tgctcttcta catctgcagt cacgtgtctt ctagaatcgc tgagtgtgcc cggatgcaga 240

acacggaggc agccgatgct atccttgc tcacggcta cgtgggcc 300
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 acaccagcag gctggacccc tcggtgacaca ggctgctggt ggccaccgtg tgcactcagt 420
 ttggcctctg gacacccctac tacttgagcc tggggacaca gtgctgacgt cacggggag 480
 gaccgtggag gggcatt 497

<210> 60
 <211> 266
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 700819903H1

<400> 60
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 ggtatgcagaa cacggaggca gcccacgcca tccttgcgt cattggctac gtgggccag 180
 gtctggctgt gttgtatgcc ctggcactca tctcaaggat tgggaaggaa gacacacccc 240
 tggaccagga caccaggcagg ctggac 266

<210> 61
 <211> 294
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 701657796H1

<400> 61
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 cacagtgcta gtgtcacggg gaaggaccgt agtggggcat tatctggca tcctacaggt 180
 tgctaaggac ctggcgaagt tcttggcctt ctcacagcgt tctgtacgc cgctgctcta 240
 ccgttacatc aacaaagcct tccccagcaa gctccggcgc ctggtaaga agat 294

<210> 62
 <211> 432
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 702466096T1

<400> 62
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 gatcatctcc ttcttcaccc gcttctgtat ttccggct gttatggc tttgatgaaac 120
 actgtaaaac atgcttccat aggagaacac aatgatgata aacgccacca gtttaatac 180
 ctgttttagac catgaagaat attagtagtg tatgctgca ttctcttaag acaaacatgg 240
 cttagatgtc actattaaag atcacagagc ccataaagtg gtattcattt attcggttat 300
 ttactctgtg acaaggtctt attgttaggt tcagatgagc cttcaacttg actaggtagc 360
 cttaggctgga caccaacatg cagtcctcct gcctcagatt acaaatgtgt accagatctt 420
 cctgatctcc at 432

<210> 63
 <211> 727
 <212> DNA
 <213> *Macaca fascicularis*

<220>
 <221> misc_feature
 <223> Incyte ID No: 703021534H1

<400> 63

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 ctcccacagcg atgatgactt gtaccagcat caggcacagc gccaggccca ccagctgcga 180
 gcccgcgggg cccgtggcg cccgcaccag cctccgcacg cgccacgcct ggctcagcag 240
 gcaggagaag cagagcgc当地 agaggacgcc ccagaggaag cggcggacgg agcagatggt 300
 ctcgtcctcc tggatgatga aggcaatgt cagcccgaaag aggcccaggg tccccaggag 360
 gaagagaaaag tggaggccca cggggctt ctttccttc tccttgatga agggcagccg 420
 caccaggagg atgagcatca ggagcagtgt gatcaggcg cccgccccgg ccaacggctt 480
 caacaagaag tgccccagat ggcgtccagg tcgcacaggg acacgttact gagggacggc 540
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 aagagcagga ggaaggtgag cacctggta gctctcatct ttctctctga tgccacgaac 660
 attcgacccc tgcggccgc agcgccaacg ctccagctgg gcctggccc gagtcacatc 720
 tctgcag 727

<210> 64

<211> 461

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 703543565J1

<400> 64

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 tggtactgtat ttctccctca agaaagacac agccaggaa taaaatcggt aacgagagat 180
 tcttacttct ctggaaactta acacagtctt tcaccagagg tgtcttccag tgctaactag 240
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 gacacttgct ctctaaacgg agcgctcggt ctgttccca agctgccatt gcgacaatcc 360
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<210> 65

<211> 278

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 076599_Mm.1

<220>

<221> unsure

<222> 249

<223> a, t, c, g, or other

<400> 65

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 gggacgcgag ggtcaatgt tcctgggtt agagagaaaatgagaaccc atcaagtgtt 120
 tccctgccc ctgcctcgtt tgattgcctc cgtggcttca gagaacgcca gcacgtcccg 180
 gggctgtgga ctggaccttc ttccctcgtt cgtgtccctg tgcgacctgg acgccatctg 240
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<210> 66

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701749639H1

<400> 66

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 ctgggtgcgc agggcacgag cccggccacg tggcagctgg tgagccctggc actgtgcctg 240
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 aagccggcc ggcctacga gcccattgat tttgtatgg cgctcatcta cgacatggg 360
 ctgctggcta tcacccttagc gcagtccttc ttacacactgt gtggcaagtt caagcggg 420
 aaggtaacg gagccttcat cctcatcaact accttcctct ctgtgctcat ctgggtgatc 480
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 <211> 499
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <221> misc_feature
 <223> Incyte ID No: 702147192H1

<400> 67
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 acgtccggg gctgtggct ggaccttctt ctcagatcgt tgccctgtg cgacctggac 180
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 ctgatgcctt ttcttcgtt gagactgccc ttcatcaagg acaaggaaag gaggcggcct 300
 gtgtgcctcc acttccttctt cctgctggg accctggcc tctttggcct gacggttgc 360
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 ttgcacttcc gctttctg cctgctgagc caggcgtggc ggttacggag gctggtgcc 480
 caggcacgca gcccggcca 499

<210> 68
 <211> 565
 <212> DNA
 <213> *Canis familiaris*

<220>
 <221> misc_feature
 <223> Incyte ID No: 703557532J1

<220>
 <221> unsure
 <222> 24
 <223> a, t, c, g, or other

<400> 68
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 aatgccttcc agggattatt catttgcctt tggatgcctc tgggatcaga aggtacagga 180
 agccttaacta aagaagttt cactgtcaag atggtttctt cagcactcaa agtcaacatc 240
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 gggaaaagaa gtttcctttt gtaaa 565

<210> 69
 <211> 468
 <212> DNA
 <213> *Canis familiaris*

<220>
 <221> misc_feature
 <223> Incyte ID No: 702766139H1

<400> 69

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 accacattaa gcttcataga tgggctccgg actgaattat tagcagcatt aggtaaagtg 180
 acaaaaatgt tccagctttt ttagacacca gaaactgat gtccttgcca tgaacttgta 240
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 ttggaaagtgc actctgttagt atctcagttc tcgtcaatgc agcatctgaa gtgataggg 360
 acccttgca ggaactgttag cactccagag gatcaaccat gatgtttggc tctagagga 420
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<210> 70

<211> 263

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 701085654H2

<400> 70

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 ctcaatgcct tccaggggtc cttcattttt cttcttggct gcctctggga tcagaagggtg 180
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 acatccatag gttcgtcaac acc 263

<210> 71

<211> 246

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> Incyte ID No: 701077530H1

<400> 71

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 gttgattatt gtgggtgtaa atgtgagcat cacagttgtg gtcatcacca agatcctgag 180
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<210> 72

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702147631H1

<400> 72

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 atcacagtgg gggttacaca gccacaggaa gtttacatga ggaagaatgc atgttggctc 180
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 acgccactct tggggctcac ttgggtttt ggtctggcca cagtgatcca ggggagcaat 420
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<210> 73

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702239655H1

<400> 73
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<210> 74
<211> 571
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702438348T1

<400> 74
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ggggccctat ttctgagagc tcctgtgaat ttggcattat ctggctctag ttgagcaatg 180
agtaagcact agaggaaattt tccacggatg agctgggtgt ctctgggtg gaaacgttat 240
atgttccatc aggaggatga actgccactg ataacaaggt gtccatcatt gccttgggg 300
accttgggg ctgctgtttt accaaaaaga ttattaaatc ttcgggatat cggagaactc 360
atcgaaaaca cagggttga tgaacctaag gatgttact ttgagtttg agaagaccac 420
cttgacaatg aaaacttatg cagcaaagct tcctgtacct tctgatccca gaggcagcca 480
aagagcaaaa tgaagagccc ctgaaaaggca ttgaggagag taaatatgtat gtgaaacaca 540
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